

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: LABIB ET AL.

Examiner: UNKNOWN

Serial No.: 10/643,486

Group Art Unit: UNKNOWN

Filed: AUGUST 18, 2003

Docket: 14605.1USD3

Confirmation No.: 6002

Title: CLEANING COMPOSITION AND APPARATUS FOR REMOVING BIOFILM AND DEBRIS FROM LINES AND TUBING AND METHOD THEREFOR



CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 February 28, 2005.

By: 

Name: KATE CANNON

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**23552**

PATENT TRADEMARK OFFICE

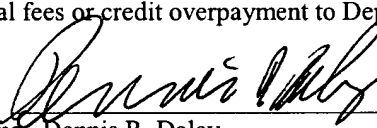
Sir:

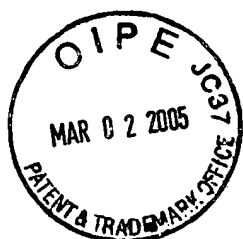
We are transmitting herewith the attached:

- ☒ Transmittal Sheet in duplicate containing Certificate of Mailing
- ☒ Information Disclosure Statement, Form 1449, 9 References, Copy of Co-pending International Search Report
- ☒ Check(s) in the amount of \$180.00 for Information Disclosure Statement
- ☒ Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

Merchant & Gould P.C.  
P.O. Box 2903  
Minneapolis, MN 55402-0903  
612.332.5300

By:   
Name: Dennis R. Daley  
Reg. No.: 34,994  
DDaley:PLSklg



S/N 10/643,486

PATENT

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Applicant:	LABIB ET AL.	Examiner:	UNKNOWN
Serial No.:	10/643,486	Group Art Unit:	UNKNOWN
Filed:	AUGUST 18, 2003	Docket No.:	14605.1USD3
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By: 

Name: KATE GANNON

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted after the mailing date of a first Office Action on-the-merits or a first Office Action after filing a Request for Continued Examination under 37 C.F.R. § 1.114 or a CPA under 37 C.F.R. § 1.53(d), but before the mailing date of: i) a final action under 37 C.F.R. § 1.113; ii) a Notice of Allowance under 37 C.F.R. § 1.311; or iii) an action that otherwise closes prosecution on the application. Enclosed is a check in the amount of \$180.00 under 37 C.F.R. § 1.17(p) for consideration of the items listed on the enclosed Form 1449.

Because this application was filed after June 30, 2003, copies have been provided only for the foreign patent documents or "Other documents" listed on the enclosed Form 1449 that have not previously been cited by or submitted to the U.S. Patent and Trademark Office in parent applications, U.S. Serial No. 09/162,698 filed on September 29, 1998, now U.S. Patent No.

6,619,302 and U.S. Serial No. 08/880,662 filed on June 23, 1997, now U.S. Patent No. 6,027,572. The translations of the foreign patents listed on the Form 1449 were previously submitted in the parent application listed above.

Applicants also bring to the attention of the Examiner a copy of an International Search Report from a co-pending application, copy attached, which references are also listed on the enclosed Form 1449.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted

MERCHANT & GOULD P.C.  
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Date: February 26, 2003

Dennis R. Daley  
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Reg. No. 34,994  
DRD:PLSklg

**23552**

PATENT TRADEMARK OFFICE

<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 14605.1USD3	Application Number: 10/643,486
	Applicant: LABIB ET AL.	
	Filing Date: 08/18/2003	Group Art Unit: UNKNOWN

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2,222,516	11/1940	Powell et al.			
	2,809,429	10/1957	Cerveris			
	2,875,521	03/1959	Tascher			
	3,182,670	05/1965	Howell			
	3,625,231	12/1971	Littrell, Jr.			
	3,811,408	05/1974	Thompson			
	4,169,123	09/1979	Moore et al.			
	4,219,333	08/1980	Harris			
	4,222,346	09/16/1980	Reisgies			
	4,311,618	01/1982	Schafer-Burkhard			
	4,380,477	04/1983	Saunders			
	4,444,597	04/1984	Gortz et al.			
	4,477,438	10/1984	Willcockson et al.			
	4,517,081	05/14/1985	Amiot et al.			
	4,525,220	06/1985	Sasa et al.			
	4,695,385	09/22/1987	Boag			
	4,710,233	12/1987	Hohmann et al.			
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	4,752,444	06/1988	Bowen et al.			
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	4,881,563	11/21/1989	Christian			
	4,892,112	01/1990	Knetsch			
	4,902,352	02/20/1990	Christian			
	4,988,485	01/29/1991	Bene			

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.	

<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b>  <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 14605.1USD3	Application Number: 10/643,486
	Applicant: LABIB ET AL.	
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	5,007,461	04/1991	Naf			
	5,045,352	09/1991	Mueller			
	5,077,008	12/1991	Kralovic et al.			
	5,107,875	04/28/1992	Sundholm			
	5,137,689	08/1992	Cantrell			
	5,159,956	11/03/1992	Kurihara			
	5,160,548	11/1992	Boisture			
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	5,244,468	09/1993	Harris			
	5,286,301	02/1994	Albrecht			
	5,287,867	02/22/1994	Plummer et al.			
	5,344,652	09/06/1994	Hall, II et al.			
	5,395,456	03/1995	Abrams et al.			
	5,403,479	04/1995	Smith et al.			
	5,408,991	04/1995	Iida et al.			
	5,419,347	05/1995	Carruth			
	5,423,917	06/13/1995	Garcia Jr.			
	5,425,815	06/1995	Parker et al.			
	5,445,761	08/29/1995	Shah et al.			
	5,462,605	10/31/1995	Szucs			
	5,480,565	01/02/1996	Levin et al.			
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	5,635,195	06/03/1997	Hall II et al.			
	5,651,893	07/29/1997	Kenley et al.			
	5,656,302	08/12/1997	Cosentino et al.			
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	5,698,100	12/16/1997	Levin et al.			
	5,699,817	12/23/1997	Bankert et al.			
	5,714,060	02/03/1998	Kenley et al.			
	5,723,090	03/03/1998	Beerstecher et al.			
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	5,795,404	08/1998	Murphy et al.			
	5,837,204	11/17/1998	Prevost et al.			
	5,840,343	11/24/1998	Hall II, et al.			
	5,858,114	01/12/1999	Board et al.			
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	5,961,937	10/1999	Gobbato			
	6,019,117	02/01/2000	Detsch et al.			
	6,027,572	02/22/2000	Labib et al.			
	6,142,170	11/07/2000	Belfer et al.			
	6,207,201	03/27/2001	Piacenza			
	6,261,457	07/17/2001	Wenthold et al.			
	6,326,340	12/04/2001	Labib et al.			
	6,423,152 B1	07/23/2002	Landaas			
	2002/0112743 A1	08/22/2002	Tabani et al.			
	6,454,871 B1	09/24/2002	Labib et al.			
	2002/0189647 A1	12/19/2002	Labib et al.			
	6,619,302 B2	09/16/2003	Labib et al.			

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FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	490,117 A1	06/17/1992	EP			X	
	634,229 B1	01/18/1995	EP			X	
	893,595	10/19/1953	GE			X	
	63-12933	01/1988	JP				
	WO 96/29098	09/1996	PCT				
	1042826 A	09/23/1983	USSR			X	

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

	Azzopardi, B., "Drops in annular two-phase flow," <i>Int. J. Multiphase Flow</i> , Vol. 23, Suppl., pp. 1-53 (1997)
	Barajas, A. et al., "The effects of contact angle on two-phase flow in capillary tubes," <i>Int. J. Multiphase Flow</i> , Vol. 19, No. 2, pp. 337-346 (1993)
	Henstock, W. et al., "The Interfacial Drag and the Height of the Wall Layer in Annular Flows," <i>AIChE Journal</i> , Vol. 22, No. 6, pp. 990-999 (November 1976)
	Hewitt, G. et al., "Annular Two-Phase Flow," <i>Pergamon Press</i> , pp. v-vii, 1-20, chapters 1-2 (Date Unknown)
	Hobbe et al. "Use of Nuclepore Filters for Counting Bacteria by Fluorescence Microscopy," <i>Appl. and Environ. Microbiol.</i> , Vol. 33, No. 5, pp. 1226-1228 (May 1977)
	Klauer, J., "Piping: An examination of pipe self cleaning in high-purity water systems," <i>Ultrapure Water</i> , pp. 56-60 (March 2001)
	Kogure et al., "A tentative direct microscopic method for counting living marine bacteria," <i>Can. J. Microbiol.</i> , Vol. 25, pp. 415-420 (1997)
	Plummer Design and Technologies, Illinois Waste Management and Research Center, Abstract (1991)
	Reinemann, D., "Dairy operators guide to milking machine cleaning and sanitation," <i>Paper written for presentation at the NRAES the Milking Systems and Parlors Conference</i> , 8 pages (January 30, 2001)
	Riedewald, F., "Biofilms in Pharmaceutical Waters," <i>Pharmaceutical Engineering</i> , 8 pages (November/December 1997)
	Tragardh, C., "Cleaning in air-water-flow," <i>Division of Food Engineering, Lund Engineering, Alnarp (Sweden)</i> , pp. 424-429 (Date Unknown)
	Triplett, K. et al., "Gas liquid two-phase flow in microchannels. Part 1: two-phase flow patterns," <i>International Journal of Multiphase Flow</i> , Vol. 25, pp. 377-380, 387-393 (1999)

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		Woodmansee, D. et al., "Mechanism for the removal of droplets from a liquid surface by a parallel air flow," <i>Chemical Engineering Science</i> , Vol. 24, pp. 299-307 (1969)
		Yuan, S., "Foundations of Fluid Mechanics," <i>Prentice-Hall Inc.</i> , pp. 357-363 (1967)

**23552**

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